

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria. Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,352	07/09/2003	Hideo Morimoto	07700.037001	1547
7	590 07/07/	•	EXAMINER	
Jonathan P. Osha Rosenthal & Osha L. L. P. 1 Houston Center, Suite 2800 1221 McKinney Avenue			NGUYEN, VINCENT Q	
			ART UNIT	PAPER NUMBER
			2858	
Houston, TX	77010		DATE MAILED: 07/07/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/616,352	MORIMOTO, HIDEO					
Office Action Summary	Examin r	Art Unit					
	Vincent Q Nguyen	2858	And				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	eation.				
Status							
1) Responsive to communication(s) filed on	<u>_</u> ·						
2a) ☐ This action is FINAL . 2b) ☐ This	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or							
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10) \boxtimes The drawing(s) filed on <u>09 July 2003</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burea * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	;				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:						

DETAILED ACTION

Drawings

1. Figures 13 and 14 should be designated by a legend such as --Prior Art-because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Objection

2. What is a detective member (e.g. claim 1, line 2)? Does Applicant mean element 21? Since examiner is unclear of what is the detective member, the recitation such as "a second electrode arranged between the detective member and the first electrode" is confusing. For example, if E21 is read as detective member, E1 is first electrode, and E2 is second electrode, how come the second electrode (E2) arranged between E21 and E1?

Appropriate correction and/or explanation is required.

For the purpose of examination, the examiner assumes that the electrode opposite to E21 (The moveable) is detective member. Thus, E2 is substantially between the moveable and E1.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Pertinence to the objection discussed above, claims 1-4 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3 of copending Application No. 10/616-347. Although the conflicting claims are not identical, they are not patentably distinct from each other because, except for the arrangement of the second electrode, which is not displaced until the detective member is displaced, as recited in the claim 1, the capacitance

sensor in the application (This Application, the 10/616-352, herein after referred to as 352) is identical to the capacitance type sensor recited in the Application No. 10/616-347. Although the 347 does not recite a specified space is defined between the detective member and the second electrode, every capacitor must have a distance ("a specified space") between the electrodes.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Morimoto et al. (6,373,265).

Regarding claim 1, Morimoto et al. discloses capacitance type sensor comprising (Figures 2-3, 15), a detective member (Dz), a first electrode (Dx) being opposite to the detective member (Dz), a second electrode (Dy) arranged between the detective member (Dz) and the first electrode (Dx+ and Dx-) and constituting capacitance elements with the first electrode (Dx), the second electrode (Dy) being "displaceable" in a same direction as the detective member (Dz) when the detective member is displaced, wherein a specified space (Distance between D and Dz) the detective

Art Unit: 2858

member (D) and the second electrode (E2), whereby the second electrode (E2) is not displaced until the detective member is displaced to an extent corresponding to the specified space (When force Fx is applied to element 20a), and wherein the capacitance type sensor is capable of recognizing the displacement of the detective member on the basis of a detection (Column 5, lines 64-67, column 6, lines 1-18), using a signal input to the first electrode, of a change in capacitance value of the capacitance element caused by a change in distance between the first electrode and the second electrode (Figures 3-6).

Regarding claim 2, Morimoto et al. discloses tapered pressing member (21e) (Figure 11) disposed in the specified space.

Regarding claims 3, 4, Morimoto et al. discloses a substrate (1) on which first and second electrodes (Dx, Dy) are both provided.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vincent Q Nguyen whose telephone number is (571) 272-2234. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le can be reached on (571) 272-2233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/616,352

Art Unit: 2858

Page 6

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Vincent Q Nguyen Patent Examiner Art Unit 2858

July 3, 2004